TEJUS
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Test Report on Cement

Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	30.04.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	352 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	26.00%	25 % to 35

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Test Report on Cement

Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
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Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02.05.2019	09.05.2019	7 days	8.132	22500	285	12.67	12.67
2	02.05.2019	09.05.2019	7 days	8.130	22500	284	12.62	
3	02.05.2019	09.05.2019	7 days	8.135	22500	286	12.71	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02.05.2019	30.05.2019	28days	8.140	22500	452	20.09	20.07
2	02.05.2019	30.05.2019	28days	8.142	22500	450	20.00	
3	02.05.2019	30.05.2019	28days	8.138	22500	453	20.13	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02.05.2019	09.05.2019	7 days	8.132	22500	282	12.53	12.53
2	02.05.2019	09.05.2019	7 days	8.134	22500	280	12.44	
3	02.05.2019	09.05.2019	7 days	8.130	22500	284	12.62	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02.05.2019	30.05.2019	28days	8.128	22500	456	20.27	20.18
2	02.05.2019	30.05.2019	28days	8.138	22500	452	20.09	
3	02.05.2019	30.05.2019	28days	8.134	22500	454	20.18	

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli	
Consultants	TEJUS CONSULTANTS	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	Concrete
Sample Location	At Site/Plant	**Date of Sampling**	02.05.2019
		Date of Testing	02.05.2019

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	550	550	5.50	94.50	90-100
10.0	4674	5224	52.24	47.76	40-85
4.75	4552	9776	97.76	2.24	0-10
Pan	224	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli	
Consultants	TEJUS CONSULTANTS	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	Concrete
Sample Location	At Site/Plant	**Date of Sampling**	02.05.2019
		Date of Testing	02.05.2019

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	564	564	5.64	94.36	90-100
10.0	4684	5248	52.48	47.52	40-85
4.75	4554	9802	98.02	1.98	0-10
Pan	198	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	02.05.2019
		Date of Testing	02.05.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	272	272	2.72	97.28	95 - 100
10.00 mm	4892	5164	51.64	48.36	25 - 55
4.75 mm	4118	9282	92.82	7.18	0 - 10
Pan	718	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s KRIDL				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	Plant/At site		**Date of Sampling**	02.05.2019	
			Date of Testing	02.05.2019	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	**100**
20.00 mm	274	274	2.74	97.26	**95 - 100**
10.00 mm	4882	5156	51.56	48.44	**25 - 55**
4.75 mm	4115	9271	92.71	7.29	**0 - 10**
Pan	729	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Location/Source	At Site/Plant	**Date of Sampling**	02.05.2019
Period of Soaking	24 hours	**Date of Testing**	02.05.2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	678	635	668	
B	Weight of oven - dry sample gm.	670	626	658	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1701	1674	1695	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.659	2.653	2.653	2.655
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.194	1.438	1.520	1.384

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**Fine aggregate (River Sand/ M sand)**	**Proposed Use**	concrete
Sample Location	At Site/Plant	**Date of Sampling**	02.05.2019
		Date of Testing	02.05.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	224	224	7.47	92.53	90 - 100
2.36 mm	310	534	17.80	82.20	75 - 100
1.18 mm	452	986	32.87	67.13	55 - 90
0.600 mm	484	1470	49.00	51.00	35 -59
0.300 mm	722	2192	73.07	26.93	8-30
0.150 mm	650	2842	94.73	5.27	0 - 10
Pan	158	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	02.05.2019
Period of Soaking	24 hours	Date of Testing	02.05.2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	672	642	658	
B	Weight of oven - dry sample gm.	664	633	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1698	1679	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.667	2.660	2.667	**2.664**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.205	1.422	1.543	**1.390**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**Fine aggregate (River Sand/ M sand)**	**Proposed Use**	concrete
Sample Location	At Site/Plant	**Date of Sampling**	02.05.2019
		Date of Testing	02.05.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	218	218	7.27	92.73	90 - 100
2.36 mm	310	528	17.60	82.40	75 - 100
1.18 mm	458	986	32.87	67.13	55 - 90
0.600 mm	464	1450	48.33	51.67	35 -59
0.300 mm	724	2174	72.47	27.53	8-30
0.150 mm	650	2824	94.13	5.87	0 - 10
Pan	176	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	02.05.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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